GMPLS Signaling Extensions for the Evolving G.709 OTN Control

CCAMP WG, IETF 83rd, Paris, France

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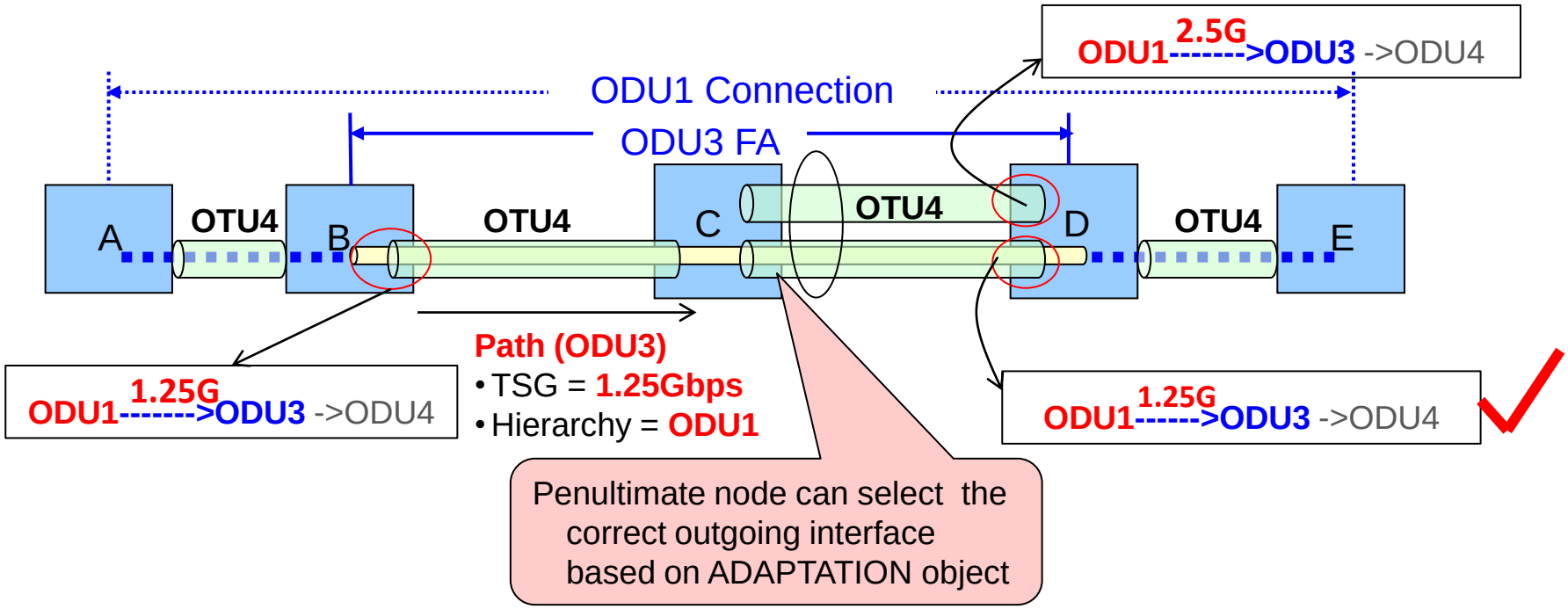
Authors & Contributors

Changes from Version 01

- Added a new section to describe the needed information (TSG and multiplexing hierarchy) when creating an ODU FA-LSP to carry specific client ODU signal
- Added a new section to describe Control of Hitless Adjustment of ODUflex (HAO) by using SE style
- Refined CP backward compatibility based on new Switching Type

ODU FA-LSP Creation

- It has been discussed at Taipei meeting that the TSG and hierarchy information are needed when creating an FA-LSP to carry a specific client signal
- A new ADAPTATION Object is introduced
  - Type 1: server TSG TLV, indicating which TSG the FA should support
  - Type 2: server hierarchy TLV, indicating the client hierarchy supported by the FA



Control of HAO

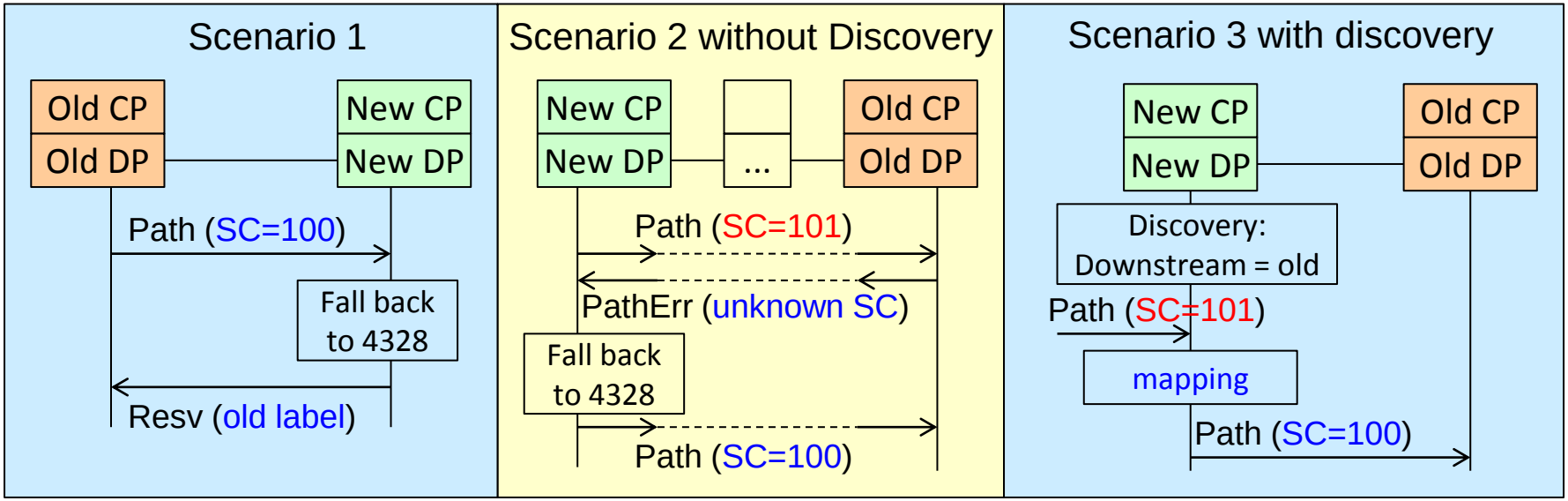
- G.7044 (HAO) has been consented by ITU-T
- From the perspective of control plane, control of HAO is almost the same as the control of bandwidth increasing / decreasing defined in RFC3209
- Some descriptions have been added to describe the control of HAO by using SE style defined in RFC3209
  - SE style is used when creating the original LSP
  - SE style is used to modify the bandwidth (increase or decrease bandwidth) of the original LSP

Control Plane Compatibility

- A new Switching Type for G.709v3 has been introduced, which could be used to resolve CP compatibility issue

100 (old)	Time-Division-Multiplex Capable (TDM) (RFC4328)
101 (new)	OTN-TDM capable (OTN-TDM)

- CP backward compatibility scenarios:



Old CP = CP supporting RFC4328
Old DP = DP supporting G.709 v1 (AMD 1)

New CP = CP supporting control of G.709v3
New DP = DP supporting G.709v3

Next Steps

- Any comments?
- Ready for LC?